Atlantic Richfield Company

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July 6, 2016

CERTIFIED - RETURN RECEIPT REQUESTED

Mr. Dave Seter Remedial Project Manager U.S. Environmental Protection Agency - Region 9 75 Hawthorne Street, SFD-9-1 San Francisco, CA 94105

Subject: June 2016 Monthly Report, Yerington Mine S ite, Lyon County, Nevada:

Administrative Order for Remedial Investigation and CERCLA Docket No. 9-2007-0005; Administrative Order on Consent, CERCLA

Docket No. 09-2009-0010

Dear Mr. Seter:

Pursuant to the above referenced orders issued by t he U.S. Environmental Protection Agency - Region 9 (EPA), Atlantic Richfield Company (ARC) has prepare d this June 2016 monthly report for RI/FS and Operations and Maintenance (O&M) activities at the Yerington Mine Site (Site).

June 2016 Activities

Site Security and O&M Activities

- Continued Site O&M, security and bird deterrent ac tivities. The two security cameras indicated no activity of concern.
- Wind dancers, bird deterrent flags, Wetland Wailer
 deployed in accordance with current EPA-approved bi
 from becoming habituated to the presence of wind da
 relocated as needed (wind dancers on the Evaporatio
 program).
 s and Bird Gard towers continued to be
 rd deterrent protocols. To reduce birds
 ncers and flags, these devices were
 n Ponds were shut down during the drilling
 program).
- Bird Gard towers 'A', 'B' and 'C' were in operatio n up through June 20 when they were shut down due to dry conditions within the ponds.
- Continued the EPA-approved bird deterrent schedule with at least two monitoring visits per day at all ponds. Observations were made within half an hour of dawn and dusk.
- PWS Pond water levels: North Cell = 0.0 feet; Midd le Cell = 0.0 feet; South Cell = 0.0 feet.
- As of June 30, the Arimetco FMS pond levels were: Phase 1 Pond = 3.88 feet; FMS Evaporation Pond A = 8.62 feet; FMS Evaporation Pond B = 5.68 feet; FMS Evaporation Pond C = 5.84 feet; VLT Pond = 11.47 feet; Slot Pond = 16.85 feet. The on June 30 was approximately 1.53 feet. Fluid tran 10,975 gallons from the Phase 1 Pond B and Pond B. See attached monitoring data.
- No rainfall occurred during June and the total Sit e rainfall remained 3.1 inches since January 1, 2016. See attached monitoring data.
- Approximately 27,858 gallons of solution were pump ed from the leak detectors in June including 2,431 gallons from the VLT ditches and Sediment Pon d, and 25,418 gallons from the Slot HLP perimeter collection ditch. See attached monitoring data.



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June 2016 Activities - Continued

Site Security and O&M Activities - Continued

- FMS pond samples for total dissolved solids (TDS) analyses and electrical conductivity (EC) measurements were obtained on June 21 from various depths and locations around the ponds.
- On June 22-23, repairs (cutting the pipe and weldi ng a butt flange) were made to five leaks in older, thin-walled portions of the VLT pipeline wit hin the pipeline ditch (i.e., the leaks remained in containment). The leaks appear to have developed in response to the spray evaporation testing conducted by SPS.

Site Characterization Activities

- Site-wide monthly groundwater elevation measuremen ts were obtained June 19-21 for recently installed monitor wells and wells outfitted with pressure transducers.
- A Pit Lake water elevation of 4,235.05 feet amsl w as recorded on June 19 from the pressure transducer, an increase of 0.08 feet since May 19, 2016. The pit lake elevation has risen 1.09 feet since June 19, 2015.
- No changes to the Domestic Well Monitoring Program. wells included in the program has decreased as prop Yerington municipal water system and domestic wells are taken out of service. Specific changes to the program are anticipated to be documented in Monitoring Report (DWMR).
 - in June 2016. The number of domestic erties continue to be connected to the the Second Quarter 2016 Domestic Well
- No changes to the Bottled Water Program in June 20 16. The number of properties requiring bottled water will decrease as properties continue to be connected to the Yerington municipal water system, and domestic wells are taken out of service.
- Continued the compilation of data for inclusion in the 1Q 2016 Groundwater Monitoring Report (GMR) and the 1Q 2016 DWMR.
- Continued the preparation of a technical memorandu m describing proposed modifications to the Site-wide groundwater monitoring program.
- Continued development of the OU-3 Human Health Ris k Assessment (HHRA) Technical Memorandum (Tech Memo 2), which includes the calcul ation of exposure point concentrations for oxide tailings, soil, and soil vapors for future workers.
- Continued to develop the OU-3 HHRA Work Plan and O U-3 soil and oxide tailings data quality review for risk assessment, and the calculation of soil vapor screening levels.
- Prepared for and participated in a groundwater tec hnical meeting held on June 29 with EPA and other stakeholders to discuss comments on the revis ed Background Groundwater Quality Assessment (BGQA), the Bedrock Characterization Tec hnical Memorandum, and the pletion of the Site-Wide Groundwater Geochemical DSR as well as the path forward for com Operable Unit (OU-1) Remedial Investigation Report. Provided EPA and others with responses to comments on the revised BGQA dated July 2, 2015.
- EPA confirmed on June 2 that the Bedrock Groundwat er Assessment Technical Memorandum had been reviewed, and that no revisions to the Tec hnical Memorandum would be required for its inclusion in the OU-1 RI Report.
- Continued to compile information for inclusion in the OU-1 RI Report.
- ata collected during OU-7 Phase 1 field Continued to compile soil classification and XRF d sampling activities, and continued to compile the a nalytical data received from the project laboratory (all laboratory data have been received with the exception of the radiochemical analyses and data validation is expected to be completed by late July).
- Drilling activities on the Evaporation Ponds start ed on June 7. Borings for the vadose zone characterization locations (EP-VZC-2, -3, -6 and -8) were drilled, and the soil logged and collected for transmittal to: 1) Test America for g eochemical analyses; 2) Sierra Environmental Monitoring (SEM) for Meteoric Water Mobility Proced ure (MWMP), electrical conductivity, moisture content, and soil pH analyses; and 3) Geo-Logic for grain size determinations and hydraulic property testing as described in the OU-4 a Field Sampling and Analysis Plan (FSAP).

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June 2016 Activities - Continued

Site Characterization Activities - Continued

- Drilling in the Evaporation Ponds was then initiat ed on June 21 for soil and groundwater sample collection and geochemical analyses at the followin g locations (temporary well locations sampled to date are in bold font): EP-GC-4, EP-GC-5, EP-GC-6, EP-GC-7, EP-GC-8, EP-GC- 9, EP-GC-10, EP-GC-11, EP-GC-12, EP-GC-14, EP-GC-15, EP-GC-16, EP-GC-23, EP-GC-24, EP-GC-25 and EP-GC-26.
- Routine database management activities in support of Site investigations and monitoring activities.
- Submitted a Notice of Contractor Change to EPA on June 22, 2016.

Planned July/August 2016 Activities

Site Security and O&M Activities

- Continue routine Site O&M, security and bird deter rent activities.
- Continue FMS pond sampling for TDS analyses and EC measurements.

Site Characterization Activities

- Continue groundwater elevation and pit lake level measurements, and meteorological monitoring.
- Prepare for and perform the 3Q 2016 groundwater mo nitoring event (August).
- Prepare for the 3Q 2016 domestic well monitoring e vent, with possible modifications as indicated above.
- Continue the Bottled Water Program, with possible modifications as indicated above.
- Continue the compilation of data for inclusion in the 1Q 2016 GMR and 1Q 2016 DWMR.
- Complete and transmit the technical memorandum des wide groundwater monitoring program. Continue disc reductions to the groundwater and domestic well mon parameters, wells to be sampled and the guarterly/a nnual report contents.
 cribing proposed modifications to the Siteussions with EPA regarding the proposed itoring programs including analytical
- Prepare for and participate in a technical meeting to be held on August 2 to discuss the screening of remedial action alternatives and other FS-related subjects with EPA and other stakeholders.
- Continue to compile information for inclusion in t he OU-1 RI Report, including an analysis of chemical concentration stability in Site-wide groun dwater monitor wells.
- Continue to compile OU-7 field and laboratory anal ytical data into tables and maps for use in a future technical meeting with EPA and other stakeholders.
- Continue and complete drilling and sampling of soi Is and groundwater in the Evaporation Ponds, and the installation of vadose zone monitoring equi pment installation at four locations (EP-VZC-2, -3, -6 and -8). Initiate development of the OU-4a Data Summary Report.
- Continue working on responses to comments from EPA
 Areas (OU-3) Step-Out Characterization DSR, and the
 Report.
 dated March 16, 2015 on the Process
 development of a Process Areas RI
- Complete and transmit OU-3 HHRA Tech Memo 2 and dis cuss with EPA the technical topics outlined in Tech Memo 2 for ultimate inclusion in the HHRA Work Plan. Continue to develop the OU-3 HHRA Work Plan.
- Complete and transmit the draft OU-1 human health conceptual site model.

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Please contact me at (657) 529-4581 or via e-mail a t jack.oman@bp.com if you have any questions or comments about this June 2016 monthly report.

Sincerely,

Jack Oman Project Manager

Attachment

cc: Harry Ball, EPA - via electronic mail

Dante Rodriguez, EPA - via electronic mail

Andrew Helmlinger, EPA – via electronic mail

Tom Dunkelman, EPA – via electronic mail

Jeff Collins, NDEP - via electronic mail

Jeryl Gardner, NDEP - via electronic mail

Dave Davis, BLM - via electronic mail

Dan Newell, City of Yerington - via electronic mail

Phyllis Hunewill - via electronic mail

Jim Sanford, MVEC - via electronic mail

Tom Grady, Nevada State Assembly - via electronic mail

Chairwoman Thom, YPT - via electronic mail

Ginny Hatch, YPT - via electronic mail

Deborah Dunn, YPT - via electronic mail

Dietrick McGinnis, McGinnis and Associates - via electronic mail

Tom Bowden, Ridolfi, Inc. – via electronic mail

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